

SEQUENCE LISTING

(1) GENERAL INFORMATION

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(i) APPLICANT: Lincoln, Steve  
Klinger, Tod M.  
Au-Young, Janice  
Tang, Y. Tom  
Goold, Richard  
Akerblom, Ingrid E.  
Seilhamer, Jeffrey J.  
Hawkins, Phillip R.  
Murry, Lynn E.  
Delegeane, Angelo M.  
Levine, Wendy B.  
Hillman, Jennifer L.  
Goli, Surya K.  
Altus, Christina M.  
Bandman, Olga  
LaBrie, Samuel T.  
Shah, Purvi

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(ii) TITLE OF THE INVENTION: Database for Storage and Analysis of Full Length Sequences

(iii) NUMBER OF SEQUENCES: 10

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(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Bozicevic & Reed, L.L.P.  
(B) STREET: 285 Hamilton Ave.  
(C) CITY: Palo Alto  
(D) STATE: CA  
(E) COUNTRY: U.S.  
(F) ZIP: 94301

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(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette  
(B) COMPUTER: IBM Compatible  
(C) OPERATING SYSTEM: DOS  
(D) SOFTWARE: FastSEQ Version 1.5

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(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: To Be Assigned  
(B) FILING DATE: Filed Herewith

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(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: 08/282,955  
(B) FILING DATE: July 29, 1995

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(A) APPLICATION NUMBER: 08/187,530  
(B) FILING DATE: January 27, 1994

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(A) APPLICATION NUMBER: 08/179,873  
(B) FILING DATE: January 11, 1994

(A) APPLICATION NUMBER: 08/100,523

(B) FILING DATE: August 3, 1993

(A) APPLICATION NUMBER: 07/977,780  
(B) FILING DATE: November 19, 1992

(A) APPLICATION NUMBER: 07/916,491  
(B) FILING DATE: July 17, 1992

(A) APPLICATION NUMBER: 08/289,822  
(B) FILING DATE: August 12, 1994

(A) APPLICATION NUMBER: 08/581,240  
(B) FILING DATE: December 29, 1995

(A) APPLICATION NUMBER: 08/657,697  
(B) FILING DATE: May 29, 1996

(A) APPLICATION NUMBER: 08/747,547  
(B) FILING DATE: November 12, 1996

(A) APPLICATION NUMBER: 08/712,710  
(B) FILING DATE: September 12, 1996

(A) APPLICATION NUMBER: 08/744,026  
(B) FILING DATE: November 5, 1996

(A) APPLICATION NUMBER: 08/786,999  
(B) FILING DATE: January 23, 1997

(A) APPLICATION NUMBER: 08/822,262  
(B) FILING DATE: March 20, 1997

(A) APPLICATION NUMBER: 08/000,000 (as yet unassigned)  
(B) FILING DATE: October 16, 1997

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Francis, Carol L.  
(B) REGISTRATION NUMBER: 36,513  
(C) REFERENCE/DOCKET NUMBER: 6514/069001

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 650-327-3400  
(B) TELEFAX: 650-327-3231

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 373 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(A) LIBRARY: Pancreatic Cancer

(B) CLONE: PANC1A

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

5 GTACGGAGGT GAGGTTTGTN ACCGCGATTC TAAGAGGTGG GCTTTTAGTC CCTCCAGACC 60  
 TCGGCTTTAG TGCTGTCTCC GCTTTTYYTTT CACCTTCACA GAGGTTCGTG TCTTCCTAAA 120  
 AGAAGGTTT ATTGGGAGGT AAAGGTCAAT GCGTAGGGGT AGAGTAAGAT GTCTTATGGT 180  
 GAAATTRAAG GTAAATTCTT GGGACCTAGA GAAGAAGTAA CGAGTGAGCC ACGCTGTAAA 240  
 AAATTGAAGT CAACCACAGA GTCGTATGTT TTTCACAATC ATAGTAATGC TGATTTTCAC 300  
 10 AGNATCCAAG AGAAACTGG AATGATTGG GTCCCTGTGN NCATCATTGA TGTCAGAGGA 360  
 CATAGTTATT TGC 373

(2) INFORMATION FOR SEQ ID NO:2:

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(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

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- (A) LIBRARY: Pancreatic Cancer  
 (B) CLONE: PANC1B

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

30 GTGAGGTTTG TTACCNCGAT TCTGAGAGGT GGGCTTTTAG TCCCTCCAGA CCTCGGCTTT 60  
 AGTGCTGTCT CCGMTTTTCT TTCACCTCA CAGAGATGTC TTATGGTGAA ATTGAAGGTA 120  
 AATTCTTGGG ACCTAGWGAA GAAGTAACGA GTGAGCCACG CTGTAAAAAA TTGAAGTCAA 180  
 CCACAGAGTC GTATGTTTTT CACAATCATA GTAATGCTGA TTTTCACAGW ATCCAAGAGA 240  
 AAAC TGGAAGT TGATTTGGGT CCCTGTGACC ATCATTNATG TCAGAGGNCA TAGTTAATT 300  
 35 GCAGGAGANC AAAAATCAAA A 321

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

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- (A) LENGTH: 528 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

- (A) LIBRARY: NEUTGMT01  
 (B) CLONE: 637393

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

ATGACAGACT GTGAATTTGG ATATATTTAC AGGCTGGCTC AGGACTATCT GCAGTGCCTC 60  
 CTACAGATAC CACAACCTGG ATCAGGTCCA AGCAAAACGT CCAGAGTGCT ACAAATGTT 120  
 55 GCGTTCTCAG TCCAAAAAGA AGTGGAAAAG AATCTGAAGT CATGCTTGGA CAATGTTAAT 180  
 GTTGTGTCCG TAGACACTGC CAGAACACTA TTCAACCAAG TGATGGAAAA GGAGTTTGAA 240  
 GACGACATCA TTAAGTGGG AAGAATTGTA ACCATATTTG CATTTGAAGG TATTCTCATC 300

AAGAACTTC TACGACAGCA AATTGCCCCG GATGTGGATA CCTATAAGGA GATTTTCATAT 360  
 TTTGTTGCGG AGTTCATAAT GAATAACACA GGAGAATGGA TAAGGCAAAA CGGAGGCTGG 420  
 GAAAATGGCT TTGTAAAGAA GTTTGAACCT AAATCTGGCT GGATGACTTT TCTAGAAGTT 480  
 ACAGGAAAGA TCTGTGAAAT GCTATCTCTC CTGAAGCAAT ACTGTTGA 528

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## (2) INFORMATION FOR SEQ ID NO:4:

## (i) SEQUENCE CHARACTERISTICS:

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- (A) LENGTH: 405 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

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## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

20 GTCCAAATCA CTCATTGTTT GTGAAAGCTG AGCTCACAGC AAAACAAGCC ACCATGAAGC 60  
 TGTCGGTGTG TCTCCTGCTG GTCACGCTGG CCCTCTGCTG CTACCAGGCC AATGCCGAGT 120  
 TCTGCCCAGC TCTTGTTTCT GAGCTGTTAG ACTTCTTCTT CATTAGTGAA CCTCTGTTCA 180  
 AGTTAAGTCT TGCCAAATTT GATGCCCCCTC CGGAAGCTGT TGCAGCCAAG TTAGGAGTGA 240  
 AGAGATGCAC GGATCAGATG TCCCTTCAGA AACGAAGCCT CATTGCCGAA GTCCTGGTGA 300  
 25 AAATATTGAA GAAATGTAGT GTGTGACATG TAAAACTTT CATCCTGGTT TCCACTGTCT 360  
 TTCAATGACA CCCTGATCTT CACTGCAGAA TGTAAGGTT TCAAC 405

## 30 (2) INFORMATION FOR SEQ ID NO:5:

## (i) SEQUENCE CHARACTERISTICS:

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- (A) LENGTH: 495 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GATCCTTGCC ACCCGCGACT GAACACCGAC AGCAGCAGCC TCACCATGAA GTTGCTGATG 60  
 GTCCTCATGC TGGCGGCCCT CTCCCAGCAC TGCTACGCAG GCTCTGGCTG CCCCTTATTG 120  
 GAGAATGTGA TTTCCAAGAC AATCAATCCA CAAGTGTCTA AGACTGAATA CAAAGAACTT 180  
 45 CTTCAAGAGT TCATAGACGA CAATGCCACT ACAAATGCCA TAGATGAATT GAAGGAATGT 240  
 TTTCTTAACC AAACGGATGA AACTCTGAGC AATGTTGAGG TGTTTATGCA ATTAATATAT 300  
 GACAGCAGTC TTTGTGATTT ATTTTAACTT TCTGCAAGAC CTTTGGCTCA CAGAACTGCA 360  
 GGGTATGGTG AGAAACCAAC TACGGATTGC TGCAAACCAC ACCTTCTCTT TCTTATGTCT 420  
 TTTTACTACA AACTACAAGA CAATTGTTGA AACCTGCTAT ACATGTTTAT TTTAATAAAT 480  
 50 TGATGGCAAA AACTG 495

## (2) INFORMATION FOR SEQ ID NO:6:

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## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1143 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:

(A) LIBRARY:

(B) CLONE: Consensus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GGCCCCGCCG CGCCCGGCCG GCCCGCCGCC CGGGGGGATG TCTTACAAAC CGAACTTGGC 60  
CGCGCACATG CCCGCCGCCG CCCTCAACGC CGCTGGGAGT GTCCACTCGC CTTCCACCAG 120  
CATGGCAACG TCTTCACAGT ACCGCCAGCT GCTCAGTGAC TACGGGCCAC CGTCCCCTAGG 180  
15 CTACACCCAG GGAAGTGGGA ACAGCCAGGT GCCCCAAAGC AAATACGCGG AGCTGCTGGC 240  
CATCATTGAA GAGCTGGGGA AGGAGATCAG ACCCACGTAC GCAGGGAGCA AGAGTGCCAT 300  
GGAGAGGCTG AAGCGCGGCA TCATTACGC TAGAGGACTG GTTCGGGAGT TCTTGGCAGA 360  
AACGGAACGG AATGCCAGAT CCTAGCTGCC TTGTTGGTTT TGAAGGATTT CCATCTTTTT 420  
ACAAGATGAG AAGTTACAGT TCATCTCCCC TGTTTCAGATG AAACCCTTGT TTTCAAATG 480  
20 GTTACAGTTT CGTTTTTCCT CCCATGGTTC ACTTGGCTCT GAACCTACAG TCTCAAAGAT 540  
TGAGAAAAGA TTTTGCAGTT AATTAGGATT TGCATTTTAA GTAGTTAGGA ACTGCCCAGG 600  
TTTTTTTTGT TTTTAAAGCA TTGATTTAAA AGATGCACGG AAAGTTATCT TACAGCAAAC 660  
TGTAGTTTGC CTCCAAGACA CCATTGTCTC CCTTTAATCT TCTCTTTTGT ATACATTTGT 720  
TACCCATGGT GTTCTTTGTT CCTTTTCATA AGCTAATACC ACTGTAGGGA TTTTGTTTTG 780  
25 AACGCATATT GACAGCACGC TTTACTTAGT AGCCGGTTCC CATTTGCCAT ACAATGTAGG 840  
TTCTGCTTAA TGTAACCTCT TTTTGTCTTA AGCATTTGCA TGACTATTAG TGCTTCAAAG 900  
TCAATTTTAA AAAATGCACA AGTTATAAAT ACAGAAGAAA GAGCAACCCA CCAAACCTAA 960  
CAAGGACCCC CGAACACTTT CATACTAAGA CTGTAAGTAG ATCTCAGTTC TCGGTTTATT 1020  
GTAAGTTGAT AAAAACATCT GGAAGAAAAT GACTAAACT GTTGCATCT TTGTATGTAT 1080  
30 TTATTACTTG ATGTAATAAA GCTTATTTTC ATTAACAATT TGTATTAAAA TGTGGGTTCC 1140  
TTG 1143

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 871 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(A) LIBRARY:

(B) CLONE: Consensus

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

50 ACCTGCTGGC CCCTGGACAC CTCTGTCACC ATGTGGTTCC TGGTTCTGTG CCTCGCCCTG 60  
TCCCTGGGGG GGAAGTGGTGC TGCGCCCCCG ATTCAAGTCCC GGATTGTGGG AGGCTGGGAG 120  
TGTGAGCAGC ATTCCCAGCC CTGGCAGGCG GCACTGGTCA TGGAAAACGA ATTGTTCTGC 180  
TCGGGCGTCC TGGTGCATCC GCAGTGGGTG CTGTCAGCCG CACACTGTTT CCAGAACTCC 240  
TACACCATCG GGCTGGGCCT GCACAGTCTT GAGGCCGACC AAGAGCCAGG GAGCCAGATG 300  
55 GTGGAGGCCA GCCTCTCCGT ACGGCACCCA GAGTACAACA GACCCTTGCT CGCTAACGAC 360  
CTCATGNTCA TCAAGTTGGA CGAATCCGTG TCCGAGTCTG ACAACATCCG GAGNATCAGC 420  
ATTGNTTCGC AGTGCCCTAC CGCGGGGAAC TTTTGCCTCG TTTCTGGCTG GGGTCTGCTG 480

5 GCGAACGGCA GAATGCCTAC CGTGCTGCAG TCGGTGAACG TGTCGGTGGT GTCTGAGGAG 540  
 GTCTGCAGTA AGCTCTATGA CCCGCTGTAC CACCCAGCA TGTTCGTGCGC CGGCGGAGGG 600  
 CAAGACCAGA AGGACTCCTG CAACGGTGAC TCTGGGGGGC CCCTGATCTG CAACGGGTAC 660  
 TTGCAGGGCC TTGTGTCTTT CGGAAAAGCC CCGTGTGGCC AAGTTGGCGT GCCAGGTGTC 720  
 TACACCAACC TCTGCAAATT CACTGAGTGG ATAGAGAAAA CCGTCCAGGC CAGTTAACTC 780  
 TGGGGACTGG GAACCCATGA AATTGACCCC CAAATACATC CTGCGGAAGG AATTCAGGAA 840  
 TATCTGTTCC CAGCCCCTCC TCCCTCAGGC C 871

10 (2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- 15 (A) LENGTH: 1428 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

- 20 (A) LIBRARY: Colnnot01  
 (B) CLONE: 609476

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

25 GGCCGGGTTG GGGGTGTGCG ATTGTGTGGG ACGGTCTGGG GCAGCCCAGC AGCGGCTGAC 60  
 CCTCTGCCTG CGGGGAAGGG AGTCGCCAGG CGGCCGTCAT GGCGGTGTCG GAGAGCCAGC 120  
 TCAAGAAAAT GGTGTCCAAG TACAAATACA GAGACCTAAC TGTACGTGAA ACTGTCAATG 180  
 TTATTACTCT ATACAAAGAT CTCAAACCTG TTTTGGATTC ATATGTTTTT AACGATGGCA 240  
 GTTCCAGGGA ACTAATGAAC CTCACTGGAA CAATCCCTGT GCCTTATAGA GGTAATACAT 300  
 ACAATATTCC AATATGCCTA TGGCTACTGG ACACATACCC ATATAATCCC CCTATCTGTT 360  
 30 TTGTTAAGCC TACTAGTTCA ATGACTATTA AAACAGGAAA GCATGTTGAT GCAAATGGGA 420  
 AGATATATCT TCCTTATCTA CATGAATGGA AACACCCACA GTCAGACTTG TTGGGGCTTA 480  
 TTCAGGTCAT GATTGTGGTA TTTGGAGATG AACCTCCAGT CTTCTCTCGT CCTATTTCCG 540  
 CATCCTATCC GCCATACCAG GCAACGGGGC CACCAAATAC TTCCTACATG CCAGGCATGC 600  
 CAGGTGGAAT CTCTCCATAC CCATCCGGAT ACCCTCCCAA TCCCAGTGGT TACCCAGGCT 660  
 35 GTCCTTACCC ACCTGGTGGT CCATATCCTG CCACAACAAG TTCTCAGTAC CCTTCTCAGC 720  
 CTCCTGTGAC CACTGTTGGT CCCAGTAGGG ATGGCACAAT CAGCGAGGAC ACCATCCGAG 780  
 CCTCTCTCAT CTCTGCGGTC AGTGACAAAC TGAGATGGCG GATGAAGGAG GAAATGGATC 840  
 GTGCCCAGGC AGAGCTCAAT GCCTTGAAAC GAACAGAAGA AGACCTGAAA AAGGGTCACC 900  
 AGAACTGGA AGAGATGGTT ACCCGTTTAG ATCAAGAAGT AGCCGAGGTT GATAAAAACA 960  
 40 TAGAACTTTT GAAAAAGAAG GATGAAGAAC TCAGTTCTGC TCTGGAAAAA ATGGAAAATC 1020  
 AGTCTGAAAA CAATGATATC GATGAAGTTA TCATTCCCAC AGCTCCCTTA TACAAACAGA 1080  
 TCCTGAATCT GTATGCAGAA GAAAACGCTA TTGAAGACAC TATCTTTTAC TTGGGAGAAG 1140  
 CTTGAGAAG GGGCGTGATA GACCTGGATG TCTTCCTGAA GCATGTACGT CTTCTGTCCC 1200  
 GTAAACAGTT CCAGCTGAGG GCACTAATGC AAAAAGCAAG AAAGACTGCC GGTCTCAGTG 1260  
 45 ACCTCTACTG ACTTCTCTGA TACCAGCTGG AGGTTGAGCT CTTCTTAAAG TATTCTTCTC 1320  
 TTCCTTTTAT CAGTAGGTGC CCAGAATAAG TTATTGCAGT TTATCATTCA MGTGTAAAT 1380  
 ATTTTGAATC AATAATATAT TTTCTGTTTT CTTTGGTAA AGATGGAT 1428

50 (2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- 55 (A) LENGTH: 667 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(vii) IMMEDIATE SOURCE:

(A) LIBRARY: THPINOT03  
(B) CLONE: 2446131

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

5  
GGCTGAGCGG CCCCCGAGCC AACCCCCGAG GAGCGGCCGG CTGGCGTCCG CCGCGCCCAG 60  
GAGTTGGGGA TGTCTACAA ACCCATCGCC CCTGCTCCCA GCAKCACCCC TGGCTCCAGC 120  
ACCCCTGGGC CGGGCACCCC GGTCCCTACA GGAAGCGTCC CGTCGCCGTC GGGCTCAGTG 180  
CCAGGAGCCG GCGCTCCTTT CAGACCGCTG TTTAACGACT TTGGACCGCC TTCCATGGGC 240  
10 TACGTGCAGG CGATGAAGCC ACCCGGCGCC CAGGGCTCCC AGAGCACCTA CACGGACCTG 300  
CTGTCACTCA TAGAGGAGAT GGGCAAAGAG ATCCGGCCTA CCTATGCTGG CAGCAAGAGC 360  
GCCATGGAGC GCCTGAAGAG AGGTATCATC CATGCCCGGG CCCTAGTCAG AGAGTGCCTG 420  
GCAGAGACAG AGCGGAACGC CCGCACGTAA CAGGAAGCGC CTCGGCCTCA GCGTCTGGAC 480  
CTATCCGGCC ACTGCAGAGC ACCCGCTTCT CCCTGGCCTT CATCCCGAGT TGCACTAACC 540  
15 ATCCTGGGCT TCCTGTCTTG TGTCCCTTGG TGGGTCCCCT CCAGGAACCA AGGAGTGGCC 600  
CTCCAGGTGG CAGCACTAAG GACACCCCCC CACAACAAGA GTTAGCAGCG AGGTCCCCAT 660  
GAGTCCC 667

## (2) INFORMATION FOR SEQ ID NO:10: -

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

30 CTGAACTCTA CCTGGTGACC AGGGACCAGG ACCTTTATAA GGTGGAAGGC TTGATGTCCT 60  
CCCCAGACTC AGCTCCTGGT GAAGCTCCCA GCCATCAGCC ATGAGGGTCT TGTATCTCCT 120  
CTTCTCGTTC CTCTTCATAT TCCTGATGCC TCTTCCAGGT GTTTTTGGTG GTATAGGCGA 180  
TCCCGTTACC TGCCTTAAGA GTGGAGCCAT ATGTCATCCA GTCTTTTGCC CTAGAAGGTA 240  
TAAACNAATT GGCACCTGTG GTCTCCCTGG AACAAAATGC TGNAAAAAGC CATGAGGAGG 300  
35 CCAAGAAGCT GCTGTGGCNG ANGCGGATTC AGAAAGGGCT CCCTCATCAG AGANGTGCGA 360  
CATGTAAACC AAATTAACT ATGGTGTCCA ANGATAN 397